## INTERNATIONAL SEARCH REPORT

International application No.

		PCT/J	P2005/005580				
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> H01M4/58, C01B31/02, H01M4/02							
Inc. C1							
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols)							
Int.Cl <sup>7</sup> H01M4/58, C01B31/02, H01M4/02							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005							
Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)							
C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where appro		Relevant to claim No.				
A	JP 7-320740 A (Kureha Chemica)	l Industry	1-11				
	CO., Ltd.), 08 December, 1995 (08.12.95), Full text & US 5587255 A & EP 613197 A1						
1							
A							
Co., Ltd.),							
	08 March, 1996 (08.03.96), Full text						
		700105 A2					
A	WO 02/83557 A1 (L.G. CHEM., LTD.),						
	WO 02/8355/ AI (L.G. CHEM., LID.), 24 October, 2002 (24.10.02),		1-11				
	Full text						
	& JP 2004-519408 A & EP 1 & US 2003-147800 A1	1296892 A1					
	a 05 2005 147000 AI						
Further documents are listed in the continuation of Box C. See patent family annex.							
* Special categories of cited documents:  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand							
to be of particular relevance the principle or theory underlying the invention			he invention				
filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than  considered novel or cannot I step when the document is tak document of particular relevance considered to involve an in combined with one or more of being obvious to a person skil		considered novel or cannot be co	onsidered to involve an inventive				
		considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art					
				the priority date claimed "&" document member of the same patent family			
				Date of the actual completion of the international search  Date of mailing of the international search report			search report
22 June, 2005 (22.06.05)		12 July, 2005 (12					
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Name and mailing address of the ISA/		Authorized officer					
Japanese Patent Office							
Facsimile No. Telephone No.							
Form PCT/ISA/210 (second sheet) (January 2004)							